

WHAT IS CLAIMED IS:

1. A piping connector comprising:

a socket in a tubular shape attached to an end of one
5 pipe to be connected; and

a plug in a tubular shape attached to an end of other
pipe, wherein:

the socket is provided with a pair of notched grooves
at peripheral faces on both sides opposed to each other, the
10 notched grooves are mounted with a stopper constituting a
gate-like shape;

the plug is provided with a first taper portion, a
flat portion and a second taper portion continuously from a
front end side thereof in a sectional shape thereof along an
15 axial direction thereof, a groove for fitting the stopper is
formed at a ridge portion of the second taper portion; and

an inner periphery of the socket is arranged with a
seal ring for sealing an interval between the inner periphery
of the socket and an outer periphery of the plug in airtight
20 and in a procedure of inserting the plug into the socket,
after the seal ring reaches an R-like portion shifting to the
flat portion from the first taper portion, the stopper is
constituted to be brought into contact with the second taper
portion.

2. The piping connector according to Claim 1,
wherein

before the seal ring passes the R-like portion to ride
on the flat portion, the stopper is constituted to be brought
5 into contact with the second taper portion.

3. The piping connector according to Claim 1,
wherein

a radius of curvature R of the R-like portion in a
10 section of the plug along the axial direction falls in a range
of 15 through 50mm.